

SEQUENCE LISTING

<110> Korea Research Institute of Bioscience and Biotechnology
Realbiotech, Ltd.
RHEE, Sangki
SONG, Kibang
KIM, Chulho
RYU, Eunja
LEE, Yongbok

<120> ENZYMATIC PRODUCTION OF DIFRUCTOSE DIANHYDRIDE IV FROM SUCRO
SE
AND RELEVANT ENZYMES AND GENES CODING FOR THEM

<130> YL001019BPCT

<150> 1999-45302

<151> 1999-10-19

<160> 2

<170> PatentIn version 3.0

<210> 1

<211> 2001

<212> DNA

<213> Arthrobacter ureafaciens K2032

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<211> 521

<212> PRT

<213> *Arthrobacter ureafaciens* K2032

<400> 2

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Ser Gly Trp Leu Cys Asp Pro Gln Arg Pro Val Thr Thr His Gly Ala
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Tyr Gln Leu Tyr Tyr Leu His Ser Asp Gln Asn Asn Gly Pro Gly Gly
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Trp Asp His Ala Ser Thr Thr Asp Gly Val Ala Phe Thr His His Gly
85 90 95

Thr Val Met Pro Leu Arg Pro Asp Phe Pro Val Trp Ser Gly Ser Ala

WO 01/29185

PCT/KR00/01183

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Tyr Leu Tyr Trp Ser Thr Asp Gly Gly Phe Thr Phe Thr Ala Leu Pro
145 150 155 160
Asp Pro Val Ile Val Asn Thr Asp Gly Arg Ala Ala Thr Thr Pro Ala
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Glu Ile Glu Asn Ala Glu Trp Phe Arg Asp Pro Lys Ile His Trp Asp
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Phe Asp Tyr Pro Asn His Ala Leu Gly Gly Ile Glu Cys Pro Asp Leu
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Ser Met Asp Ala Tyr Gly Ile Gly Leu Pro Met Thr Tyr Ala Tyr Trp
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Thr Gly Thr Trp Asp Gly Glu Gln Phe His Ala Asp Asp Leu Thr Pro
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Ser Ile Asp Ala Pro Glu Thr Lys Arg Leu Ala Ile Ala Trp Met Asn
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cgactgctcc tcagcctaga cggggcccctc ctcgaggtct tcgtcgggga cggtgaggcg

120

actgcgtcga acctggtcct cctggggggcc ggcggtgtga ccgcgagcct cgagacggca

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WO 01/29185

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2001

<210> 2

<211> 521

<212> PRT

<213> *Arthrobacter ureafaciens* K2032

<400> 2

Met Thr Pro Ala Ile Ser Arg Arg Ala Val Leu Gln Gly Ala Gly Ala
1 5 10 15

Gly Ala Leu Ala Leu Ile Phe Gly Gly Ala Val Pro Pro Ala Ala Arg
20 25 30

Ala Ser Ala Pro Gly Ser Leu Arg Ala Val Tyr His Met Thr Pro Pro
35 40 45

Ser Gly Trp Leu Cys Asp Pro Gln Arg Pro Val Thr Thr His Gly Ala
50 55 60

Tyr Gln Leu Tyr Tyr Leu His Ser Asp Gln Asn Asn Gly Pro Gly Gly
65 70 75 80

Trp Asp His Ala Ser Thr Thr Asp Gly Val Ala Phe Thr His His Gly
85 90 95

Thr Val Met Pro Leu Arg Pro Asp Phe Pro Val Trp Ser Gly Ser Ala

WO 01/29185

PCT/KR00/01183

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Asp Pro Val Ile Val Asn Thr Asp Gly Arg Ala Ala Thr Thr Pro Ala
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Glu Ile Glu Asn Ala Glu Trp Phe Arg Asp Pro Lys Ile His Trp Asp
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Ser Met Asp Ala Tyr Gly Ile Gly Leu Pro Met Thr Tyr Ala Tyr Trp
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Thr Gly Thr Trp Asp Gly Glu Gln Phe His Ala Asp Asp Leu Thr Pro
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Gln Trp Leu Asp Trp Gly Trp Asp Trp Tyr Ala Ala Val Thr Trp Pro
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WO 01/29185

PCT/KR00/01183

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